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Reversible image **watermarking** berkeley.edu [PDF]
A van Leest, M van der Veen, F ... - 2003, ICIP 2003, ..., 2003 - ieeexplore.ieee.org
... In the decoder the **watermarked** signal y is demultiplexed and the **watermark** data, the overhead information and the error data are extracted ... In our reversible **watermarking** technique, the **mapping** fnnc- tion CQ controls the perceptual distortion of the **watermarked** signal, and ...
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Robust hash functions for digital **watermarking** emory.edu [PDF]
J Fridrich, M Goljan - International Conference on Information ..., 2000 - ieeexplore.ieee.org
... Secure oblivious **watermarking** of videos for fingerprinting or authentication requires **watermarks** that depend on each frame. Indeed, one **watermark** pattern inserted into each frame would lead to a very vulnerable **watermarking** scheme with a serious security **gap**. ...
Cited by 139 - Related articles - All 7 versions

[PDF] Information-theoretic analysis of **watermarking** psu.edu [PDF]
P Moulin, JA O'Sullivan - IEEE INTERNATIONAL CONFERENCE ON ..., 2000 - Citeseer
... We are primarily interested in transparent **watermark**- ing applications, where D 1 is small. ... Codewords {U N(m), m ∈ M} are randomly generated from the distribution p(u), and **watermarked** data are generated from the ... For any **watermarking** game subject to distortions (D ...
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[PDF] Redefining the Limits of the Coastal Zone: Bridging the **Gap** Between Land and Sea Using Remote Sensing, GIS, and the Internet psu.edu [PDF]
SD King, DR Green - 2001 - Citeseer
... **water mark**), and secondly, a lack of integrated data sets about the whole coastal ... fill this **gap** if it were used more effectively, from satellite imagery for large scale **mapping** and context setting, to smaller scale but more detailed imagery from aircraft for specific site studies. ...
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Modified patchwork algorithm: A novel audio **watermarking** scheme
IK Yeo, HJ Kim - IEEE Transactions on Speech and Audio ..., 2003 - ieeexplore.ieee.org
... The proposed algorithm in this paper inserts **watermarks** in the frequency domain. ... 1) **Map** the secret key and **watermark** to the seed of random number generator and then generate the index sets ... 4) Compare with the threshold and decide that **water**- **mark** is embedded if . ...
Cited by 24 - Related articles - Bl, Direct - All 3 versions

[PDF] Provably robust digital **watermarking** psu.edu [PDF]
B Chen, GW Wornell - Proceedings of SPIE - Multimedia Systems and ..., 1999 - Citeseer
... processes including any keys, can remove spread spectrum and LBM embedded **watermarks** and improve ... In contrast, to remove a **watermark** embedded with QIM methods (including STDM and earlier ... In the case of **watermarking**, the maximization (14) is subject to a distortion ...
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National Park vegetation **mapping** using multitemporal Landsat 7 data and a decision tree classifier
FC Brown de Colstoun, MH Story, C Thompson, ... - Remote sensing of ..., 2003 - Elsevier
... Fig. 2. Location **map** of the Delaware Water **Gap** National Recreation Area. View Within Article. ... The camera runs a script that queries the GPS unit for the time/data and position. The script will use that information to place a "**watermark**" on to a digital photo. ...
Cited by 66 - Related articles - All 9 versions

The role of information theory in **watermarking** and its application to image **watermarking*** 1
P Moulin - Signal Processing, 2001 - Elsevier
... 1. The **watermark** communication problem. ... In blind **watermarking** (public **watermarking**) applications, S N is not part of the key, so the decoder does not know the ... The information hider passes S N , K N , and the message M through a function, producing **watermarked** data X N ...
Cited by 81 - Related articles - All 8 versions

[PDF] Design and analysis of digital **watermarking**, information embedding, and data hiding systems dspace.org [PDF]
B Chen - 2000 - mit.dspace.org
... and manipulated, and authentication of, or detection of tampering with, multimedia signals is another application of digital **watermarking** methods [24]. So-called "fragile" **watermarks** ... detecting tampering. Alternatively, one could embed a robust **watermark**, a digital signa- ...
Cited by 82 - Related articles - All 6 versions

[PDF] Capacity-security analysis of data hiding technologies psu.edu [PDF]
S Voloshynovskiy, T Pun - IEEE Proc. of Conf. on Multimedia and Expo, ..., 2002 - Citeseer
... The particular stochastic models of **watermarks** depend on four main factors: the statistics of ... In the case of robust **watermarking**, the attacker assumes that the image contains some ... We consider two **watermark** detection problems for the two **watermark** models considered above. ...
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High capacity **reversible data** embedding and content authentication
J Tian - 2003 IEEE International Conference on Acoustics, ..., 2003 - ieeexplore.ieee.org
HIGH CAPACITY REVERSIBLE DATA EMBEDDING AND CONTENT AUTHENTICATION Jun Tian ... ABSTRACT In this paper we present a high capacity **reversible data** em- bedding algorithm. It serves for the purposes of both self authentication and **reversible data** embedding. ...
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fuc.gr [PDF]

[PDF] **Reversible** watermarking by difference expansion
J Tian - Proceedings of workshop on multimedia and security, 2002 - digimarc.com
... Capacity bounds and constructions for **reversible data hiding**. In Proc. ... [7] J. Tian. Wavelet-based **reversible** watermarking for authentication. ... 2002. [8] CD Vleeschouwer, JF Delaigle, and B. Marq. Circular interpretation of **histogram** for **reversible** watermarking. In Proc. ...
Cited by 85 - Related articles - All 5 versions
digimarc.com [PDF]

[PDF] Circular interpretation of bijective transformations in lossless watermarking for media asset management
C De Vleeschouwer, JF Delaigle, B ... - IEEE Transactions on ..., 2003 - 163.17.9.240
... **reversible** algorithm by circular interpretation of bijective trans- formations. ... The relative orientation of the **histograms** of two groups of pixels conveys one bit of infor- mation. ... 2000. [17] W. Bender, D. Gruhl, N. Morimoto, and A. Lu, "Techniques for **data hiding**," IBM Syst. J., vol. ...
Cited by 159 - Related articles - View as HTML - Bl, Direct - All 8 versions
163.17.9.240 [PDF]

Reversible watermark using difference expansion of triplets
AM Alattar - ... Conference on Image Processing, 2003. ICIP ..., 2003 - ieeexplore.ieee.org
... Since the watermark is completely **reversible**, the original image can be recovered exactly. ... to hide pairs of bits: which allows the algorithm to hide a large amount of **data**. ... components of the image and across all spectral components to maximize the **hiding** capacity Simulation ...
Cited by 91 - Related articles - All 3 versions
digimarc.com [PDF]

[PDF] A content-based image authentication system with lossless **data hiding**
D Zou, CW Wu, G Xuan, YQ Shi - IEEE International ..., 2003 - www.video.eecs.berkeley.edu
... The **data hiding** method we use will be based on the circular **histogram** algorithm ... comparing the original image with the image after the hidden **data** has been ... Vleeschouwer, JF Delaigle, B. Macq, "Circular Interpretation of **Histogram** for **Reversible** Watermarking", Proceedings ...
Cited by 19 - Related articles - View as HTML - All 5 versions
berkeley.edu [PDF]

[PDF] Lossless image digital watermarking based on integer wavelet and **histogram** adjustment
G Xuan, J Chen, J Zhu, ... - Proc. of Int Conf on Diagnostic Imaging and ..., 2002 - Citeseer
... high-capacity **data** embedding for image watermarking based on integer wavelet and **histogram** adjustment is ... After extracting **data** embedded ,the original image should be **reversible** from watermarked image ... Obviously most of current **data hiding** algorithms are not distortionless ...
Cited by 8 - Related articles - View as HTML - All 3 versions
psu.edu [PDF]

Distortionless Digital Watermarking Based on Integer Wavelet [J]
C Jidong, X Yuzheng - Computer Engineering, 2003 - en.cnki.com.cn
... To obtain higher PSNR performance at the same time, two **histogram**-adjustment methods are presented in this paper and ... of Electronic Science and Technology,University of Science and Technology of China,Hefei 230027;The application of **reversible data hiding** in medical ...
Cited by 1 - Related articles - Cached

[PDF] for **data hiding**
W Bender, W Butera, D Gruhl, R ... - IBM SYSTEMS ..., 2000 - www-tr.watson.ibm.com
... FJ Paiz S. Pogreb in an earlier paper, "Techniques for **Data Hiding**," the overall goals and constraints of information- **hiding** problem space and a variety of approaches to information **hiding** in image, audio, and text were described. ... 547 Applications for **data hiding** Page 2. ...
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ibm.com [PDF]

Attacks on copyright marking systems
F Petitcolas, R Anderson, M Kuhn - Information Hiding, 1998 - Springer
... 16]. Marking may also be used to avoid placing marks in places such as the large expanses of pure colour found in cartoons; the colour **histogram** of such ... Echo **hiding** [26] relies on the fact that we cannot perceive short echoes (say 1 ms) and embeds **data** into a cover ...
Cited by 79 - Related articles - All 31 versions
psu.edu [PDF]

The Studies of **Reversible Data Hiding** for Spatial Domain Images
CC Lin - 1997 - etheses.lib.ncku.edu.tw
... 5.2.3 Shifting **histogram** ... 7.3 **Reversible data hiding** based on shifting a difference **histogram** ... 9.3.1 Proposed method ..... 9 ...
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[CITATION] **Circular interpretation of histogram for reversible watermarking**
C De Vleeschouwer, JE Delaigle, B ... - 2001 IEEE Fourth ..., 2001 - ieeexplore.ieee.org
... **Circular interpretation** of **histogram** for **reversible watermarking**. 962758 abstract Download Citations; Rights And Permissions; Cookies must be enabled to login.After enabling cookies , please use refresh or reload or ctrl+f5 on the browser for the login options. De **Vleeschouwer** ...
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[PDF] **Circular interpretation** of bijective transformations in lossless **watermarking** for media asset management 163.17.9.246 [PDF]
C De Vleeschouwer, JF Delaigle, B ... - IEEE Transactions on ..., 2003 - 163.17.9.246
... Page 7. DE **VLEESCHOUWER** et al.: **CIRCULAR INTERPRETATION** OF BIJECTIVE TRANSFORMATIONS 103 (a) (b) Fig. 11. ... **reversible** algorithm by **circular interpretation** of bijective trans- formations. The **histograms** of groups of pixels are mapped to a circle. ...
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[PDF] **Reversible watermarking**: current status and key issues psu.edu [PDF]
JS Feng, IC Lin, CS Tsai, YP Chu - International Journal of Network ..., 2006 - Citeseer
... In order to enhance the robustness of the **reversible watermark**- ing, the embedding target is replaced by the **histogram** of a block. ... We introduce the **Vleeschouwer** et al.'s **circular interpretation** scheme [27] to wrok out the concept of this type. ...
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Reversible watermark using the difference expansion of a generalized integer transform psu.edu [PDF]
AM Alattar - IEEE Transactions on Image Processing, 2004 - ieeexplore.ieee.org
... visual artifact. **Vleeschouwer** et al. [6] reduce the salt-and-pepper artifact in Macq's method by using a **circular interpretation** of bijec- tive transformations of the **histogram** of the blocks used for the Patchwork. The capacity ...
Cited by 219 - Related articles - BL Direct - All 6 versions

[PDF] **Reversible watermarking** by difference expansion digimarc.com [PDF]
J Tian - Proceedings of workshop on multimedia and security, 2002 - digimarc.com
... of SPIE, pages 679-690, Jan. 2002. [6] CD **Vleeschouwer**, JF Delaigle, and B. Marq. **Circular interpretation** of **histogram** for **reversible watermarking**. In Proc. of IEEE 4th Workshop on Multimedia Signal Processing, Oct. 2001.
Cited by 69 - Related articles - All 5 versions

Multilevel **reversible** data hiding based on **histogram** modification of difference images
DC Lin, WL Tai, CC Chang - Pattern Recognition, 2008 - Elsevier
... In 2003, De **Vleeschouwer** et al. [11] proposed a lossless **watermarking** algorithm that relies on **circular interpretation** of bijective ... possible image quality of a marked image at the same time, inspired by Ni et al.'s scheme [17] we explore the peak point of the **histogram** in pixel ...
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Expansion embedding techniques for **reversible watermarking** psu.edu [PDF]
AM Tirkel, GJ Rodriguez - IEEE Transactions on Image ..., 2007 - ieeexplore.ieee.org
... A very different approach was pro- posed by De **Vleeschouwer** et al. [5] based on the **circular** in- terpretation of the ... in [26], where data is embedded into the **histogram** bins. Theoretical analysis of **reversible watermarking** has been presented by Kalker and Willems in [15]. ...
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[PDF] Wavelet-based **reversible watermarking** for authentication digimarc.com [PDF]
J Tian - ... of SPIE Sec, and Watermarking of Multimedia Cont, IV, 2002 - digimarc.com
... 2. THE WHAT, WHY, AND HOW OF **REVERSIBLE WATERMARKING** **Reversible watermark** is a special subset of fragile **watermark**. Like all fragile **watermarks**, it can be used for digital content authentication. But **reversible watermark** is much more than content authentication. ...
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Reversible watermark using difference expansion of quads digimarc.com [PDF]
AM Alattar - ... Conference on Acoustics, Speech, and Signal ..., 2004 - ieeexplore.ieee.org
... these requirements are often not available, and, furthermore, most **watermarking** algorithms often ... Therefore, a **reversible watermark** must be designed such that it can be removed to ... Several researchers have developed **reversible watermarks** [2]-[9]. Tian [8] used a difference ...
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Lossless **watermarking** considering the human visual system psu.edu [PDF]
M Awrangjeb, M Kankanhalli - Digital Watermarking, 2004 - Springer
... 2nd edn. Pearson Education International, Prentice Hall (2002) 446–448 12. **Vleeschouwer**, CD, Delaigle, JF, Macq, B.: **Circular Interpretation** of **Histogram** for **Reversible Watermarking**. In IEEE 4th Workshop Multimedia Signal Processing, (2001) 345–350 13. ...
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